

HALE and DORR LLP
1455 Pennsylvania Avenue, NW
Washington, DC 20004
(202) 942-8400



Applicant(s): SUMNER, II et al. Application: 09/521,242
Filing Date: April 5, 2000 Atty Docket No.: 110346.201US1 IHD:sed
Entitled: COMPUTER ARCHITECTURE AND PROCESS OF PATIENT GENERATION,
EVOLUTION AND SIMULATION FOR COMPUTER BASED TESTING SYSTEM
USING BAYESIAN NETWORKS AS A SCRIPTING LANGUAGE

RECEIPT IS ACKNOWLEDGED FOR THE FOLLOWING:

- Supplemental Information Disclosure Statement and PTO-1449 Forms (17 pages)
- 276 References
- Authorization to charge Deposit Account No. 08-0219 for \$180.00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

SUMNER, II et al.

Serial No. 09/521,242

: Group Art Unit: 2121

Filed: April 5, 2000

: Examiner: George B. Davis

For: COMPUTER ARCHITECTURE AND PROCESS OF PATIENT GENERATION,
EVOLUTION AND SIMULATION FOR COMPUTER BASED TESTING
SYSTEM USING BAYESIAN NETWORKS AS A SCRIPTING LANGUAGE**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**Honorable Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

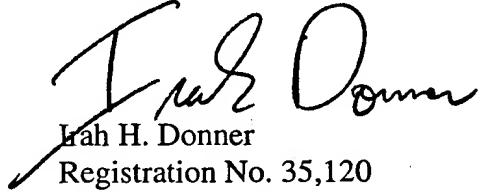
In accordance with 37 C.F.R. §§ 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search had been made or that information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item, and Applicant reserves the

right to prove that the date of publication is in fact different.

The fee of \$180.00 pursuant to 37 CFR § 1.17(p) is attached. The Commissioner is authorized to charge any deficiency in any fees pursuant to 37 CFR § 1.17 associated with this communication and to credit any excess payment to Deposit Account No. 08-0219.

Respectfully submitted,

HALE AND DORR LLP



Ira H. Donner
Registration No. 35,120

1455 Pennsylvania Avenue, NW

Washington, DC 20004

TEL 202.942.8585

FAX 202.942.8484

Date: 10/15/02

IHD/sed

LIST OF ART CITED BY APPLICANT (PTO-1449)	ATTY. DOCKET NO.	SERIAL NO.
	110346.201US1	09/521,242
	APPLICANT SUMNER, II et al.	
	FILING DATE 04/05/00	GROUP 2121

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT/PUBLICATION NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	3,008,000	11/07/61	Morhant			09/11/58
	3,484,950	12/23/69	Serrell et al.			06/12/68
	3,537,190	11/03/70	Serrell et al.			02/05/68
	4,360,345	11/23/82	Hoh			07/14/80
	4,547,161	10/15/85	Manning			03/08/84
	4,797,104	01/10/89	Laerdal et al.			08/03/87
	4,978,305	12/18/90	Kraft			06/06/89
	5,002,491	03/26/91	Abrahamson et al.			04/28/89
	5,011,413	04/30/91	Ferris et al.			07/19/89
	5,033,969	07/23/91	Kamimura			03/13/90
	5,059,127	10/22/91	Lewis et al.			10/26/89
	5,103,408	04/07/92	Greenberg et al.			01/16/90
	5,141,439	08/25/92	Cousins et al.			12/09/91
	5,163,131	11/10/92	Row et al.			09/08/89
	5,180,309	01/19/93	Egnor			12/04/90
	5,195,033	03/16/93	Samph et al.			06/08/90
	5,204,813	04/20/93	Samph et al.			06/08/90
	5,211,564	05/18/93	Martinez et al.			04/25/91
	5,219,291	06/15/93	Fong et al.			04/10/92
	5,240,419	08/31/93	deGyafas			07/15/91
	5,574,828	11/12/96	Hayward et al.			04/28/94
	5,594,638	01/14/97	Iliff			12/29/93
	5,644,686	07/01/97	Hekmatpour			04/29/94
	5,657,255	08/12/97	Fink et al.			04/14/95
	5,660,176	08/26/97	Iliff			12/29/93
	5,687,716	11/18/97	Kaufmann et al.			11/15/95
	5,680,590	10/21/97	Parti			09/05/95
	5,764,923	06/09/98	Tallman et al.			11/22/95
	5,853,292	12/29/98	Eggert et al.			05/08/96
	5,956,501	09/21/99	Brown			01/10/97
	6,021,404	02/01/00	Moukheibir			08/18/97
	6,049,794	04/11/00	Jacobs et al.			12/09/97
	6,246,975	06/12/01	Rovinelli et al.			10/30/97
	US2001/0001852	05/24/01	Rovinelli et al.			01/16/01
EXAMINER		DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
		APPLICANT SUMNER, II et al.	
		FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
<p>“Shelley - Computer-Aided Knowledge Engineering,” Anjewierden, Anjo et al. <i>Knowledge Acquisition</i> (1992), pp. 109-125.</p> <p>“Automated Integration of External Databases: A Knowledge-Based Approach to Enhancing Rule-Based Expert Systems,” Berman, Lewis et al. <i>Computers and Biomedical Research</i> 26, (1993), pp. 230-241.</p> <p>“Use of a Domain Model to Drive an Interactive Knowledge-Editing Tool,” Musen, Mark A. et al. <i>Knowledge Systems Laboratory Report</i> KSL-86-24, (1987).</p> <p>“Automatic Test Case Generation Modeling Patient States and Physician Actions,” Perreault, Leslie E. <i>Knowledge Systems Laboratory Report</i> KSL-87-63, (1987).</p> <p>“From Expert Models to Expert Systems: Translation of an Intermediate Knowledge Representation,” Combs, David M. et al. <i>Knowledge Systems Laboratory Report</i> KSL-88-58, (1988).</p> <p>“Model-Based Interpretation of Time-Varying Medical Data,” Kahn, Michael G. et al. <i>Knowledge Systems Laboratory Report</i> KSL-89-34, (1989).</p> <p>“PSY/JD: An Advisory System for Legal Aspects of Decision Making in the Psychiatric Emergency Room,” Millis, M.D., David H. <i>Knowledge Systems Laboratory Report</i> KSL-90-54 (1990).</p> <p>“A Model for Critiquing Based on Automated Medical Records,” Johan van der Lei, et al. <i>Knowledge Systems Laboratory Report</i> KSL-91-18 (1991).</p> <p>“Action-Based Fault Hierarchies for Real-Time Response,” Ash, David et al. <i>Knowledge Systems Laboratory Report</i> KSL 92-05 (1992).</p> <p>“A Temporal-Abstraction System for Patient Monitoring,” Shahar, Yuval et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-14 (1992).</p> <p>“Graph-Grammar Productions for the Modeling of Medical Dilemmas,” Egar, John W. et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-15, (1992).</p> <p>“Augmented Transition Networks as a Representation for Knowledge-Based History-Taking Systems,” Poon, Alex et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-20, (1992).</p> <p>“Modeling Tasks with Mechanism,” Puerta, Angela R. et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-30, (1992).</p> <p>“Use of KADS to Create a Conceptual Model of the ONCOCIN Task,” Linster, Mark et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-36, (1992).</p> <p>“RESUME: A Temporal-Abstraction System for Patient Monitoring,” Shahar, Yuval et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-84, (1992).</p> <p>“Mapping Domains to Methods in Support of Reuse,” Gennari, John H. et al. <i>Knowledge Systems Laboratory Report</i> KSL-93-57, (1994).</p> <p>“A Component-Based Architecture for Automation of Protocol-Directed Therapy,” Musen, Mark A. et al. <i>Knowledge Systems Laboratory Report</i> KSL-95-28 (1995).</p> <p>“Critiquing Physician Decision Making Using Data from Automated Medical Records: Assessing the Limitations,” J. van der Lei et al. <i>Fourteenth Annual Symposium on Computer Applications in Medical Care</i>, pp. 559-563, Washington DC, November 1990.</p>			
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
APPLICANT SUMNER, II et al.			
FILING DATE April 5, 2000		GROUP 2121	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
"Representation and Use of Temporal Information in ONCOCIN," Kahn, M. G. et al. <i>Knowledge Systems Laboratory Report</i> KSL-85-8 (1987).			
"An Adaptation of Item Modeling for Developing Test-Item Banks," Shea, Judy A. et al. <i>Teaching and Learning in Medicine</i> , Vol. 4, No. 1, pp. 19-24 (1992).			
"Distance Health Care is Latest Medicine," Ryan, Margaret. <i>Electronic Engineering Times</i> , pp. 55-56, April 29, 1996.			
"Intelligent Tutoring Systems: A Review," Sleeman, D. School of Education & Dept. of Computer Science, Stanford University.			
"Building the Computer-Based Patient Record," Norman, Joseph. <i>Knowledge Systems Laboratory Report</i> KSL-95-24 (1995).			
"A Programming Course in Bioinformatics for Computer and Information Science Students," Altman, Russ B. et al. <i>Knowledge Systems Laboratory Report</i> KSL-95-64 (1995).			
"Kutato: An Entropy-Driven System for Construction of Probabilistic Expert Systems from Databases," Herskovits, Edward et al. <i>Knowledge Systems Laboratory Report</i> KSL-90-22, (1990).			
"Ontology-Based Configuration of Problem-Solving Methods and Generation of Knowledge-Acquisition Tools: Application of PROTÉGÉ-II to Protocol-Based Decision Support," Tu, Samson W. et al. <i>Knowledge Systems Laboratory Report</i> KSL-94-22 (1994).			
"Reusable Ontologies, Knowledge-Acquisition Tools, and Performance Systems: PROTÉGÉ-II Solutions to Sisyphus-2," Rothenfluh, Thomas E. et al. <i>Knowledge Systems Laboratory Report</i> KSL-93-65 (1994).			
"Model-Based Generation of User Interfaces," Puerta, Angel R. et al. <i>Knowledge Systems Laboratory Report</i> KSL-94-51 (1994).			
"Reuse with Protégé-II: From Elevators to Ribosomes," Gennari, John H. et al. <i>Knowledge Systems Laboratory Report</i> KSL-94-71 (1995).			
"Synthesis of UNIX Programs using Derivational Analogy," Bhansali, Sanjay et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-02 (1992).			
"Automated Support for Building and Extending Expert Models," Musen, Mark A. <i>Knowledge Systems Laboratory Report</i> KSL-86-26 (1989).			
"Interactive Diagnosis and Repair of Decision-Theoretic Models," Klein, David A. et al. <i>Knowledge Systems Laboratory Report</i> KSL-90-19 (1992).			
"Creation of a Systematic Domain for Medical Care: The Need for a Comprehensive Patient-Description Vocabulary," Campbell, Keith E. et al. <i>Knowledge Systems Laboratory Report</i> KSL-91-60 (1991).			
"Temporal-Abstraction Mechanisms in Management of Clinical Protocols," Shahar, Yuval et al. <i>Knowledge Systems Laboratory Report</i> KSL-91-19 (1991).			
"Rational Metareasoning and Compilation for Optimizing Decisions under Bounded Resources," Horvitz, Eric J. <i>Knowledge Systems Laboratory Report</i> KSL-89-81 (1990).			
"An Empirical Analysis of Likelihood-Weighting Simulation on a Large, Multiply-Connected Belief Network," Shwe, Michael et al. <i>Knowledge Systems Laboratory Report</i> KSL-90-23 (1992).			
EXAMINER	DATE CONSIDERED		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)	ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
	APPLICANT SUMNER, II et al.	
	FILING DATE April 5, 2000	GROUP 2121

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	"A Computer Program for Statistically Based Decision Analysis," Polaschek, Jeanette X. et al. <i>Knowledge Systems Laboratory Report KSL-90-50</i> (1990).
	"Comparison of Computer-Aided and Human Review of General Practitioners' Management of Hypertension," Johan van der Lei et al. <i>Lancet</i> 338; 1504-1508, December 14, 1991.
	"A Problem-Solving Model for Protocol-Based Care: From e-ONCOCIN to EON," Musen, Mark A. et al. <i>Knowledge Systems Laboratory Report KSL-91-61</i> (1991).
	"Conceptual Models for Automatic Generation of Knowledge-Acquisition Tools," Eriksson, Henri et al. <i>Knowledge Systems Laboratory Report KSL-92-28</i> (1993).
	"Languages for Knowledge Acquisition: Building and Extending Models," Musen, Mark A. <i>Knowledge Systems Laboratory Report No. KSL-89-07</i> (1989).
	"PROTÉGÉ II: Computer Support for Development of Intelligent Systems From Libraries of Components," Musen, Mark A. et al. <i>Knowledge Systems Laboratory Report KSL-94-60</i> (1994).
	"Generation of Knowledge-Acquisition Tools from Domain Ontologies," Eriksson, Henrik et al. <i>Knowledge Systems Laboratory Report KSL-93-56</i> , (1994).
	"Knowledge-Based Temporal Abstraction in Clinical Domains," Shahar, Yuval et al. <i>Knowledge Systems Laboratory Report KSL-95-23</i> (1995).
	"A Framework for Knowledge-Based Temporal Abstraction," Shahar, Yuval. <i>Knowledge Systems Laboratory Report KSL-95-29</i> (1995).
	"Learner Adaptivity in Generic Instructional Strategies," Van Marcke, Kris et al. <i>Knowledge Technologies N.V.</i> , pp. 323-337.
	"Scoring a Performance-Based Assessment Modeling the Judgments of Experts," Clauser, Brian E. et al. <i>Journal of Educational Measurement</i> , Winter 1995, Vol. 32, No. 4, pp. 397-415.
	"Intelligent Frameworks for Instructional Design," Spector, J. Michael et al. <i>Educational Technology</i> , October 1992, pp. 21-27.
	"Constraint Satisfaction with a Multi-Dimensional Domain," Yoshikawa, Masazumi et al. <i>C&C Systems Research Laboratories</i> , NEC Corporation, Japan, pp. 252-259.
	"An Advance toward Instructional Management: Prescriptive Knowledge Base of Learner Control," Chung, Jaesam. Indiana University, pp. 1-9.
	"An Intelligent Support System for Course Design," Paquette, Gilbert et al. <i>Educational Technology</i> , November-December 1994, pp. 50-57.
	"Ontological Issues of CSCL Systems Design," Ikeda, Mitsuru et al., <i>ISIR</i> , Osaka University, Osaka Japan, pp. 242-249.
	"A Multi-Agent Approach to Model Student Reasoning Process," Leman, Stephane et al. <i>IREMIA</i> , Universite de La Reunion, La Reunion, France, pp. 258-264.
	"Toward a Computational Model of Tutoring," Woolf, Beverly Park. <i>ETR&D</i> , Vol. 40, No. 4, pp. 49-64.
	"Generic Tasks in Knowledge-Based Reasoning: High-Level Building Blocks for Expert System Design," Chandrasekaran, B. Ohio State University, <i>IEEE</i> , Fall 1986.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
		APPLICANT SUMNER, II et al.	
		FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
<p>"A Generic Task Model for Instruction," Van Marcke, Kris. <i>Knowledge Technologies N.V.</i>, Brussels, Belgium, pp. 171-194.</p>			
<p>"Utilizing OODB Schema Modeling for Vocabulary Management," Huanying (Helen) Gu et al., CIS Dept. & CMS NJIT, Newark, NJ pp. 274-278.</p>			
<p>"Bayesian Networks without Tears," Charniak, Eugene. <i>AI Magazine</i>, 1991, pp. 50-63.</p>			
<p>"Database and Knowledge Base Integration - A Data Mapping Method for Arden Syntax Knowledge Modules," Johansson, B. et al. <i>Methods of Information in Medicine</i>, 1996; 35: 302-308.</p>			
<p>"Knowledge Acquisition for Temporal Abstraction," Stein, Adam et al. 1996 AMIA, Inc., pp. 204-208.</p>			
<p>"Galapagos: Computer-Based Support for Evolution of a Convergent Medical Terminology," Campbell M.D., Keith E. et al., 1996 AMIA, Inc., pp. 269-273.</p>			
<p>"Knowledge-based Approaches to the Maintenance of a Large Controlled Medical Terminology," Cimino, MD, James J. et al. <i>Journal of the American Medical Informatics Association</i>, Vol. 1, No. 1, Jan/Feb 1994, pp. 35-50.</p>			
<p>"Knowledge Sources for Natural Language Processing," Baud, PhD, Robert H. et al. 1996 AMIA, Inc., pp. 70-74.</p>			
<p>"Managing Information with SNOMED: Understanding the Model," Rothwell, David J. et al. 1996 AMIA, Inc., pp. 80-83.</p>			
<p>"Mapping the GALEN CORE Model to SNOMED-III: Initial Experiments," Pole, P.M. et al. 1996 AMIA, Inc., pp. 100-104.</p>			
<p>"Mapping Medical Vocabularies to the Unified Medical Language System," Zenz, Quing et al. 1996 AMIA, Inc., pp. 105-109.</p>			
<p>"Modeling Principles for QMR Medical Findings," Rassinoux, Anne Marie et al. 1996 AMIA, Inc., pp. 264-268.</p>			
<p>"Natural Language Processing and the Representation of Clinical Data," Sager, Naomi et al. <i>Journal of the American Medical Informatics Association</i>, Volume 1, No. 2, Mar/Apr 1994, pp. 142-160.</p>			
<p>"Natural Language Processing in Medicine: An Overview," Spyns, P. <i>Methods of Information in Medicine</i> 1996; 35: pp. 285-301.</p>			
<p>"Phase II Evaluation of Clinical Coding Schemes: Completeness, Taxonomy, Mapping, Definitions and Clarity," Campbell, James R. et al. Dept. of Internal Medicine, Univ. of Nebraska.</p>			
<p>"Review Paper: Coding Systems in Health Care," Cimino, J. J. <i>Methods of Information in Medicine</i> 1996; 35: pp. 273-284.</p>			
<p>"Scalable and Expressive Medical Terminologies," Mays, Eric et al. 1996 AMIA, Inc., pp. 259-263.</p>			
EXAMINER	DATE CONSIDERED		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
		APPLICANT SUMNER, II et al.	
		FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
<p>“Standards for Medical Identifiers, Codes, and Messages Needed to Create an Efficient Computer-stored Medical Record,” Board of Directors of the American Medical Informatics Association. <i>Journal of the American Medical Informatics Association</i>, Vol. 1, No. 1, Jan/Feb 1994, pp. 1-7.</p>			
<p>“The Efficacy of SNOMED, Read Codes, and UMLS in Coding Ambulatory Family Practice Clinical Records,” Mullins, H. C. et al. 1996 AMIA, Inc., pp. 135-139.</p>			
<p>“The Explanatory Role of Events in Causal and Temporal Reasoning in Medicine,” Buekens, F. et al. <i>Methods of Information in Medicine</i> 1993; 32: 274-278.</p>			
<p>“The Unified Medical Language System,” Lindberg, D. A. B. et al. <i>Methods of Information in Medicine</i> 1993; 32: 281-291.</p>			
<p>“Graphical Access to Medical Expert Systems: I. Design of a Knowledge Engineers Interface,” Tsuji, S. et al. <i>Knowledge Systems Laboratory Report</i> KSL-85-11 (1986).</p>			
<p>“Graphical Access to Medical Expert Systems: II. Design of an Interface for Physicians,” Lane, C. D. et al. <i>Knowledge Systems Laboratory Report</i> KSL-85-15 (1986).</p>			
<p>“Task Modeling with Reusable Problem-Solving Methods,” Eriksson, Henrik et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-43 (1993).</p>			
<p>“T-HELPER: Automated Support for Community-Based Clinical Research,” Musen, Mark A. et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-08 (1992).</p>			
<p>“Use of KADS to Create a Conceptual Model of the ONCOCIN Task,” Linster, Marc et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-36 (1992).</p>			
<p>“Patient-Specific Explanation in Models of Chronic Disease,” Jimison, Holly B. et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-60 (1992).</p>			
<p>“Toward Normative Expert Systems: Part I the Pathfinder Project,” Heckerman, D. E. et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-66 (1992).</p>			
<p>“A methodology for Determining Patients Eligibility for Clinical Trials,” Tu, S. W. et al. <i>Knowledge Systems Laboratory Report</i> KSL-92-78 (1992).</p>			
<p>“Integrated Clinical Decision Support Using an Object-Oriented Database Management System” Frost, R. D. et al. <i>Methods of Information in Medicine</i> 1993; 32: 154-160.</p>			
<p>“PROTÉGÉ-II: Computer Support for Development of Intelligent Systems from Libraries of Components” Musen, M. A. et al. <i>MEDINFO 95 Proceedings</i>, 1995 IMIA.</p>			
<p>“Expert System Reasoning About Dynamic Systems Semi-quantitative Simulation,” Widman, Lawrence E. <i>Computer Methods and Programs in Biomedicine</i>, 29 (1989) pp. 95-113.</p>			
<p>“Representation of Preferences in Decision-Support Systems,” Farr, Brad R. et al. <i>Computers and Biomedical Research</i> 25, 324-335 (1992).</p>			
<p>“Graphical Access to Medical Expert Systems: IV. Experiments to Determine the Role of Spoken Input,” Isaacs, E. et al. <i>Methods of Information in Medicine</i> 1993; 32: pp. 18-32.</p>			
EXAMINER	DATE CONSIDERED		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
		APPLICANT SUMNER, II et al.	
		FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
<p>“A Method for Quantitative Evaluation of Expert Systems” Fatemeh Zahedi, <i>European Journal of Operational Research</i>, 48 (1990) pp. 136-147.</p>			
<p>“The Representation of Uncertainty in Medical Expert Systems,” Hughes, Christopher. <i>Med. Inform.</i> (1989), Vol. 14, No. 4, pp. 269-279.</p>			
<p>“The Implementation and Evaluation of a Theory for High Level Cognitive Skill Acquisition Through Expert Systems Modeling Techniques,” Koubek, Richard J. <i>Ergonomics</i>, 1989, Vol. 32, No. 11, pp. 1419-1429.</p>			
<p>“Empirical Evaluation of Decision Tables for Constructing and Comprehending Expert System Rules,” Santos-Gomez, Lucinio et al. <i>Knowledge Acquisition</i> (1992) Vol. 4, pp. 427-444.</p>			
<p>“Exercise Countermeasure Protocol Management Expert System” Webster, Laurie et al. <i>Computer Methods and Programs in Biomedicine</i>, 39 (1993) pp. 217-223.</p>			
<p>“Rule Based Artificial Intelligence Expert System for Determination of Upper Extremity Impairment Rating,” Lim, Ian et al. <i>Computer Methods and Programs in Biomedicine</i>, 39 (1993), pp. 203-211.</p>			
<p>“Methodological Foundations of KEATS, the Knowledge Engineer’s Assistant,” Motta, Enrico et al. <i>Knowledge Acquisition</i> (1991) Vol. 3, pp. 21-27.</p>			
<p>“Metatool Support for Custom-tailored, Domain-oriented Knowledge Acquisition,” Eriksson, Henrik. <i>Knowledge Acquisition</i> (1992), Vol. 4, pp. 445-476.</p>			
<p>“Coupling Vocabularies and Data Structures: Lessons from LOINCJ,” Rocha, Roberto A. et al. 1996 AMIA, Inc., pp. 90-94.</p>			
<p>“A Language of Health in Action: Read Codes, Classifications and Groupings,” Stuart-Buttle, C. D. G. et al. 1996 AMIA, Inc., pp. 75-79.</p>			
<p>“A Framework for Modeling the Electronic Medical Record,” Rector, A. L. et al. <i>Methods of Information in Medicine</i> 1993, 32: 109-119.</p>			
<p>“COLERIDGE: Composition Learning Environment for Reflection about Intentions and Dialogue Goals in Education,” Cook, John. School of Technology and Information Studies, Thames Valley University, Ealing, London.</p>			
<p>“Developing a Research Reference Interface for Knowledge-Based Instructional Design Tools,” Li, Zhongmin et al. <i>Educational Technology/August</i> 1991.</p>			
<p>“Understanding Students’ Solutions in SYPROS,” Herzog, Christian. AI-ED 95 - Poster Session.</p>			
<p>“Computer Technology and Complex Problem Solving: Issues in the Study of Complex Cognitive Activity,” Zech, Linda et al. <i>EARLI</i>, 1995 Symposium.</p>			
<p>“A Framework for Building Agent-based Learning Environments,” Hietala, Pentti et al. University of Tampere, Dept. of Computer Science, Finland.</p>			
<p>“A Framework for Knowledge Base Refinement Through Multistrategy Learning and Knowledge Acquisition,” Tecuci, Gheorghe et al. <i>Knowledge Acquisition</i> (1994) 6, pp. 137-162.</p>			
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)	ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
	APPLICANT SUMNER, II et al.	
	FILING DATE April 5, 2000	GROUP 2121

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Learning Companion Systems, Social Learning Systems, and Intelligent Virtual Classrooms," Tak-Wai Chan. Dept. of Computer Science and Information Engineering, National Central University, Taiwan.
	"Pop Class Intelligent Tutoring Systems: Shell, Toolkit & Design Technology," Goodkovsky, V. A. et al. Moscow State Institute for Physics and Engineering.
	"A Blackboard-Approach to a Knowledge Based Tutoring System for Linear Programming," Born, Andreas et al. Institute fur Informatik/WWZ, Switzerland.
	"The Future of Computer-Managed Instruction (CMI)," Gibbons, A. S. et al. <i>Educational Technology</i> , May 1993, pp. 7-11.
	"Contribution to Negotiation Studying: A Knowledge Items Approach," Jambaud , Pierreet al. LIRMM, UMR CNRS-UM2 n 9928, Montpellier Cedex.
	"The Intelligent Learning Support System on the Distributed Cooperative Environment," Okamoto, Toshio et al. The Graduate School of Information Systems, University of Electro-Communications, Tokyo Japan.
	"Constructivist Uses of Expert Systems to Support Learning," Jonassen, David H. <i>Journal of Computer-Based Instruction</i> , Summer 1993, Vol. 20, No. 3, pp. 86-94.
	"An Historical Perspective and a Model for Evaluation of Intelligent Tutoring Systems," Seidel, Robert J. <i>Journal of Educational Computing Research</i> , Vol. 10(2) pp. 103-128, 1994.
	"Incorporating Student Models in Adaptive Testing Systems," Eskenasi, Ayram. <i>Educational & Training Technology International</i> , May 1993, Vol. 30, No. 2, pp. 135-143.
	"Ontological Issues of CSCL Systems Design," Ikeda, Mitsuru et al. Osaka University, Osaka Japan.
	"Episodic Skeletal-Plan Refinement Based on Temporal Data," Tu, S. W. et al. <i>Knowledge Systems Laboratory Report KSL-87-70</i> (1989).
	"From Laboratory to Test Booklet: Using Expert-Novice Comparisons to Guide Design of Performance Assessments," Katz, Irvin R. presented at 1994 Annual Meeting of AERA.
	"TQuery: A Context-Sensitive Temporal Query Language," Kahn, Michael G. et al. <i>Computers and Biomedical Research</i> 24, 401-419 (1991).
	"New Role of a Medical Documentation System," Miaoulis, G. et al. <i>Med. Inform.</i> (1992), Vol. 17, No. 3, pp. 165-178.
	"A System for Using Time Dependent Data in Patient Management," Russ, Thomas A. <i>MEDINFO 86</i> , Elsevier Science Publishers B.V., 1986.
	"Streamlining for Managed Care," Culhane, Charles. <i>American Medical Newsletter</i> .
	"Object-orientated DBMSTtechniques for Time-oriented Medical Record," Pinciroli, F. et al. <i>Med. Inform.</i> (1992), Vol. 17, No. 4, pp. 231-241.
	"Clinical Versus Actuarial Judgment," Dawes, Ron M. et al. <i>Science</i> , March 31, 1989, Vol. 243, pp. 1668-1674.
	"The Validity of an Essay Test of Clinical Judgment," Day, Susan C. et al. <i>Academic Medicine</i> , Vol. 65, No. 9, Sept. Supplement 1990.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
APPLICANT SUMNER, II et al.			
FILING DATE April 5, 2000		GROUP 2121	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
'Framing Bias Among Expert and Novice Physicians," Christensen, Caryn et al. <i>Academic Medicine</i> , Vol. 66, No. 9, Sept. Supplement 1991.			
'Beyond Multiple-choice Questions and Essays: The Need for a New Way to Assess Clinical Competence," Elstein, Arthur S. <i>Academic Medicine</i> , Vol. 68, No. 4, April 1993.			
'Medical Problem Solving," Elstein, Arthur S. et al. <i>Evaluation & The Health Professions</i> , Vol. 13, No. 1, March 1990.			
'The Computerized Patient Record," Wallace, Scott. TE, May 1994.			
'The Furor Over Data on Doctors: You Bet Your Life. Do You Know the Odds?," <i>New York Times</i> , 5/29/94.			
'Artificial Intelligence in Medicine," Schwartz, William B. et al. <i>Sounding Board</i> , Vol. 316, No. 11, pp. 685-688.			
'Auditing the Disaster Recovery Plan," Doughty, Ken. <i>EDPACS</i> , Sept. 1993, Vol. XXI, No. 3.			
'Computers as Clinicians: An Update," Kleinmuntz, Benjamin. <i>Computer Biol. Med.</i> , Vol. 22, No. 4, pp. 227-237, 1992.			
'Do Computerized Patient Records Risk Invading Patient Privacy More than Paper Records?," Frawley, K. A. Nov. 5, 1993.			
'Framing the Primary Care Physician," LaDuka, Anthony. <i>AAFP Primary Care Competencies Conference</i> , June 4, 1994.			
Fact Sheet, National Network of Libraries of Medicine, U.S. Dept. of Health and Human Services, October 1991.			
Fact Sheet, UMLS® Semantic Network, U.S. Dept. of Health and Human Services, November 1991.			
Fact Sheet, UMLS® Information Sources Map, U.S. Dept. of Health and Human Services, November 1991.			
Fact Sheet, Unified Medical Language System™, U.S. Dept. of Health and Human Services, November 1991.			
Fact Sheet, UMLS® Metathesaurus™, U.S. Dept. of Health and Human Services, November 1991.			
Fact Sheet, National Library of Medicine Outreach, U.S. Dept. of Health and Human Services, February 1992.			
Fact Sheet, The National Library of Medicine, U.S. Dept. of Health and Human Services, July 1992.			
Fact Sheet, Grateful Med®, U.S. Dept. of Health and Human Services, August 1992.			
Fact Sheet, UMLS® Semantic Network, U.S. Dept. of Health and Human Services, November 1992.			
NLM Seeks Volunteers to Test Access to Citations of HSR Literature Medlars, U.S. Dept. of Health and Human Services, November 1992.			
NLM Health Services Research Information Program: Highlights of Activities, U.S. Dept. of Health and Human Services, November 1992.			
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
APPLICANT SUMNER, II et al.			
FILING DATE April 5, 2000		GROUP 2121	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
Fact Sheet, UMLS® Metathesaurus®, U.S. Dept. of Health and Human Services, January 1993.			
Fact Sheet, UMLS® Information Sources Map, U.S. Dept. of Health and Human Services, January 1993.			
Fact Sheet, Unified Medical Language System™, U.S. Dept. of Health and Human Services, January 1993.			
"The Unified Medical Language System (UMLS)," Dr. Bishop, M.D. <i>Computing</i> , Vol. 9, No. 4, 1992.			
Fact Sheet, NLM Online Databases and Databanks, U.S. Dept. of Health and Human Services.			
"Knowledge-based Processing of Medical Language: A Language Engineering Approach," Schroder, Martin. Uni. of Hamburg, Germany.,			
"How Representative of Typical Practice Are Practice-Based Research Networks?," Green, Larry A. et al. <i>Arch Family Med.</i> vol. 2, September 1993.			
"A Performance and Failure Analysis of SAPHIRE with a MEDLINE Test Collection," Hersh, William R. et al. <i>Journal of the American Medical Informatics Association</i> , Vol. 1, No. 1, Jan/Feb. 1994.			
"Understanding and Using the Medical Subject Headings (MeSH) Vocabulary to Perform Literature Searches," Lowe, Henry J. et al. <i>JAMA</i> , April 13, 1994, Vol. 271, No. 14.			
"Representing Medical Knowledge - The Arden Syntax," Lewinson, Lisa. PC AI, July/August 1994.			
"Standards for Medical Identifiers, Codes, and Messages Needed to Create an Efficient Computer-stored Medical Record," Board of Directors of the American Medical Informatics Association. <i>Journal of the American Medical Informatics Association</i> , Vol. 1, No. 1, Jan/Feb. 1994.			
"Canadian Specialty Examinations: Considerations for the Future," Becker, W. J. <i>Annals RCPSC</i> , Vol. 27, No. 7, October 1994.			
"Decision Analysis: A Progress Report," Kassirer, Jerome P. et al. <i>Annals of Internal Medicine</i> , 1987; 106:275-291.			
"Ranking Radiotherapy Treatment Plans Using Decision-Analytic and Heuristic Techniques," Jain, Nielsh L. et al. <i>Computers and Biomedical Research</i> , Vol. 25, pp. 374-383 (1992).			
"Medical Progress - Decision Analysis," Pauker, Stephen G. et al. <i>The New England Journal of Medicine</i> , Vol. 316, No. 5, January 29, 1987.			
"Intelligent Dialogue Based on Statistical Models of Clinical Decision-Making," McSherry, D. M. G. <i>Statistics in Medicine</i> , Vol. 5, 497-502 (1986).			
"Obstacles to Acceptance of Clinical Decision Analysis" Balla, J. I. et al., <i>BJM</i> , Vol. 298, March 4, 1989.			
"The Analytic Hierarchy Process in Medical Decision Making: A Tutorial," Dolan, James G. et al. <i>Medical Decision Making</i> , Vol. 9, No. 1, Jan-Mar 1989.			
"Automated Critiquing of Medical Decision Trees," Wellman, Micahel P. et al. <i>Medical Decision Making</i> , Vol. 9, No. 4, Oct-Dec 1989.			
"Stochastic Thresholds," Hartz, Arthur et al. <i>Medical Decision Making</i> , Vol. 6, No. 3, Jul-Sept. 1986.			
"Evaluating Physicians' Probabilistic Judgments" Poses et al. <i>Medical Decision Making</i> , Vol. 8, No. 4, Oct-Dec 1988.			
EXAMINER	DATE CONSIDERED		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
		APPLICANT SUMNER, II et al.	
		FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
"Decision Theoretic Methodology for Severity Index Development Methodology," Gudtafson, David G. et al. <i>Medical Decision Making</i> , Vol. 6, No. 1, Jan-Mar 1986.			
"A Pitfall in Utility Assessment – Patients' Undisclosed Investment Decisions," Hilden, Jorgen et al. <i>Medical Decision Making</i> , Vol. 12, No. 1, Jan-Mar 1992.			
"Quality-adjusted Life Years, Utility Theory, and Healthy-years Equivalents," Mehrez, Abraham et al. <i>Medical Decision Making</i> , Vol. 9, No. 2, Apr-Jun 1989.			
"The Computer-Based Patient Record and Confidentiality," Woodward, Beverly. <i>The New England Journal of Medicine</i> , Vol. 333, No. 21, Nov. 23, 1995.			
"Specifying Adverse Drug Reactions Formulating Contexts Through CLARIT Processing of Medical Abstracts," Rikken, Floor et al. Dept. of Social Pharmacy and Pharmacoepidemiology, University of Groningen, The Netherlands.			
"Alternate Approaches to a UMLS," Bishop, Charles W. <i>Medical Decision Making</i> , Vol. 11, No. 4, Oct-Dec 1991 Supplement.			
"The Design of the Postgres Storage System," Stonebraker, Michael. EECS Dept., University of California, Berkeley, CA.			
"A Diagnostic Method that Uses Causal Knowledge and Linear Programming in the Application of Bayes' Formul a," Cooper, Gregory F. <i>Computer Methods and Programs in Biomedicine</i> , Vol. 22, (1986) 223-237.			
"Analysis of Probability as an Aid in the clinical Diagnosis of Coronary-Artery Disease," Diamond, George A. et al. <i>The New England Journal of Medicine</i> , Vol. 300, No. 24, June 14, 1979.			
"Use of Linear Models to Analyze Physicians' Decisions," Wigton, Robert S. <i>Medical Decision Making</i> , Vol. 8, No. 4, Oct-Dec 1988.			
"Representation Method for Dynamic Causal Knowledge Using Semi-Quantitative Simulation," Widman, Lawrence E. <i>MEDINFO 86</i> , Elsevier Science Publishers (1986).			
"From Terminology to Terminology Services," Nowlan, W. A. et al. 1994 AMIA, Inc.			
"Goals for Concept Representation in the GALEN Project," Rector, A. L. et al. 1994 AMIA, Inc.			
"Medical-concept Models and Medical Records: An Approach Based on GALEN and PEN&PAD," Rector, A. L. et al. <i>Journal of the American Medical Informatics Association</i> , Vol. 2, No. 1, Jan/Feb 1995.			
"The Canon Group's Effort: Working Toward a Merged Model," Friedman, Carol et al. <i>Journal of the American Medical Informatics Association</i> , Vol. 2, No. 1, Jan/Feb 1995.			
"Automated Diagnostic Indexing Natural Language Processing," Satomura, Y. et al. <i>Med. Inform.</i> (1992), Vol. 17, No. 3, pp. 149-163.			
"A Specialized Framework for Medical Diagnostic Knowledge-Based Systems," Lanzola, G. et al. <i>Computers and Biomedical Research</i> , Vol. 25, pp. 351-365 (1992).			
"A Feature Dictionary Supporting a Multi-domain Medical Knowledge Base," Naeymi-Rad, Frank. <i>Computer Methods and Programs in Biomedicine</i> , Vol. 30 (1989), pp. 217-228.			
"Data Representation for Subsequent Image Interpretation," Cawley, M. G. et al. <i>Med. Inform.</i> (1991), Vol. 16, No. 2, pp. 125-136.			
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)	ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
	APPLICANT SUMNER, II et al.	
	FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
"The Effect of Incomplete Knowledge on the Diagnoses of a Computer Consultant System," Heckerling, P. S. et al. <i>Med. Inform.</i> (1991), Vol. 16, No. 4, pp. 363-370.		
"KBSIM: A System for Interactive Knowledge-based Simulation," Hakman, M. et al. <i>Computer Methods and Programs in Biomedicine</i> , Vol. 34, (1991), pp. 91-113.		
"Integrating a Medical Database and Advisory System," Goodyear, O. M. et al. <i>Med. Inform.</i> (1991), Vol. 16, No. 3, pp. 315-321.		
"Representing Medical Knowledge: Reconciling the Present or Creating the Future?," Bishop, Charles W. et al. <i>M.D. Computing</i> , Vol. 9, No. 4, 1992.		
"Rationale for Knowledge Base Redesign in a Medical Advice System," Musen, Mark et al. <i>Knowledge Systems Laboratory Report KSL 85-17</i> .		
"Hierarchical Pattern Matching for Knowledge Based News Categorization," Gilardoni, Luca et al. Quinary SpA, Milano Italy.		
"A Mathematical Overview of a Computer Simulation Model of Maternity Histories with Illustrative Examples," Mode, C. J. <i>IMA Journal of Mathematics Applied in Medicine & Biology</i> (1984), Vol. 1, pp. 107-121.		
"Effectiveness of Multiple True-False Items," Kreiter, Clarence D. <i>Applied Measurement in Education</i> , 2(3), 207-216.		
"Test Results Depend on Response Format," Cason, Gerald J. <i>Office of Educational Development, Univ. of Arkansas for Medical Sciences</i> , Vol. 6, No. 8, Dec. 1980.		
"The Failure of Distractors on Complex Multiple-Choice Items to Prevent Guessing," Kolstad, Rosemarie K. <i>Educational Research Quarterly</i> , Vol. 8, No. 2, 1983.		
"A Taxonomy of Multiple-Choice Item-Writing Rules," Haladyna, Thomas M. <i>Applied Measurement in Education</i> , 2(1), 37-50 (1989).		
"Describing Medicine and Generating Patients with Parallel Health State Networks," Walton Sumner, II et al. Division of General Medical Sciences, Dept. of Internal Medicine, Washington University, St. Louis, Missouri.		
"A Revolution in the Assessment of Clinical Knowledge," Walton Sumner II et al. <i>JABFP</i> , Jan-Feb 1996, Vol. 9, No. 1.		
"Algorithms for Knowledge Acquisition and Patient Generation" Marek, Victoret al., University of Kentucky, March 29, 1996.		
"Research and Developmental Issues for a Computer-Based Testing Project for the American Board of Family Practice," Rovinelli, Richard J. <i>Psychometric Consultant</i> .		
"A Review of Iliad and QMR for Primary Care Providers" Walton Sumner, II, Program in Medical Information Science, Dartmouth Medical School.		
"Data Transformations for Patient Simulations," Walton Sumner, II et al. presented at <i>Proceedings of the Nineteenth Annual Symposium on Computer Applications in Medical Care</i> , New Orleans, LA November 1995.		
EXAMINER	DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
		APPLICANT SUMNER, II et al.	
		FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
<p>“Designing a Knowledge Base to Support Family Practice Certification Examinations,” Walton Sumner et al. presented at <i>Proceedings of the Seventeenth Annual Symposium on Computer Applications in Medical Care</i>, Washington, D.C., 1993.</p>			
<p>“Knowledge Acquisition Techniques for Decision Analysis Using AOTL and AQUINAS,” Bradshaw, eJ. M. et al. <i>Knowledge Acquisition</i> (1991) 3, pp. 49-77.</p>			
<p>“Towards a Second Generation Knowledge Acquisition Tool,” Linster, Marc <i>Knowledge Acquisition</i> (1989) 1, pp. 163-183.</p>			
<p>“Issues in the Development of Intelligent Tutoring Systems,” McLeish, Mary et al. Dept. of Computing & Information Science, Univ. of Guelph, Ontario, May 1987.</p>			
<p>“Interactive Video and Artificial Intelligence: Convenient Marriage,” Midoro et al., <i>PLET</i> 25, 4.</p>			
<p>“Multimedia Clinical Simulation based on Patient Records: Authoring, User Interface, Pedagogy,” Felciano, R. M. et al. <i>Knowledge Systems Laboratory Report</i> KSL-94-43 (1994).</p>			
<p>“An Alternative Method for Scoring Adaptive Tests, Research Report,” Stocking, ML. RR-94-98, 1994.</p>			
<p>“Ensuring the Clinical Competence of Medical School Graduates Through Standardized Patients,” Stillman PL, Swanson, DB. <i>Arch Int Med</i> 1978, Vol. 147, pp. 1049-1052.</p>			
<p>“CAI at the Ohio State University College of Medicine; Tutorial Evaluation System,” Weinberg, AD. <i>Computer Biology Medicine</i> 1973. Vol. 3, pp. 299-305.</p>			
<p>“Computer-supported Independent Study in the Basic Medical Sciences in: DeLand EC (ed.),” Merola, AJ, Pengov RE, Stokes BT. <i>Information Technology in Health Science Education</i>, Plenum Press, New York, 1973.</p>			
<p>“The Use of a Computer-based System to Teach Clinical Problem-solving,” Barnett GO. <i>Computers in Biomedical Research</i>, Academic Press, New York 1974. Vol. 4, pp. 301-319.</p>			
<p>“Computers in Medical Evaluation: Present and Future,” Barnett GO, Hoffer EP, Famiglietti KT. <i>Proceedings of the Seventh Annual Symposium on Computer Applications in Medical Care</i>, IEEE Press, Washington, DC 1983, pp. 11-13.</p>			
<p>“MERIT- an application of CASE, Deland EC (ed.),” Harless, WG, Farr NA, Zier MA, et al. <i>Information Technology in Health Science Education</i>, Plenum Press, New York 1978, pp. 565-569.</p>			
<p>“A Computer Program for Simulating the Patient-Physician Encounter,” Friedman RB, <i>J Med Educ</i> 1973, Vol. 48, pp. 92-97.</p>			
<p>“An Adaptive Testing Simulation for a Certifying Examination,” Reshetar, RA, et al. presented at the <i>Annual Meeting of the American Educational Research Association</i>, San Francisco, CA, April, 1992.</p>			
<p>“Evaluating Preclinical Medical Students by Using Computer-Based Problem-Solving Examinations,” Stevens, RH, et al. <i>Academic Medicine</i> Vol. 64, pp. 685-687.</p>			
<p>“Evaluating a Computer-Based Experiential learning Simulation: A Case Study Using Criterion-Referenced Testing,” Sittig, DF, Jiang A, Manfre S, et al. <i>Computer Nurs.</i> Vol 13, 1995. pp. 17-24.</p>			
<p>“Status Report on the NBME’s Computer-Based Testing,” Clyman, Stephen G., Orr, Nancy A. <i>Academic Medicine</i>, Vol. 65, 1990. pp. 235-241.</p>			
<p>“A Pilot Study of the Relationship between Expert’s Ratings and Scores Generated by the NBME’s Computer-Based Examination System,” Solomon DJ, Osuch JR, Anderson K, et al. <i>Academic Medicine</i>, Vol. 67, 1992. pp. 130-132.</p>			
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)		ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
		APPLICANT SUMNER, II et al.	
		FILING DATE April 5, 2000	GROUP 2121
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
<p>“Second Generation Expert Systems: A Step Forward in Knowledge Engineering, in David JM, Krivine JP, Simmons R., Second Generation Expert Systems.” <i>Springer Verlag</i>, New York, NY, 1993. pp. 3-23.</p>			
<p>“Davis R. Expert Systems: Where are We and Where Do We Go From Here,” <i>AI Magazine</i>, Vol. 3, 1983. pp. 3-22.</p>			
<p>“Generate, Test and Debug: A Paradigm for Combining Associational and Causal Reasoning in : David M, Krivine JP, Simmons R., Second Generation Experts Systems” Generate, Simmons R. <i>Springer Verlag</i>, New York, NY, 1993. pp. 79-92.</p>			
<p>“The Roles of Knowledge and Representation in Problem Solving, in : David M, Krivine JP, Simmons R., Second Generation Expert Systems,” Simmons R, David R. <i>Springer Verla</i>, New York, NY 1993. pp. 27-45.</p>			
<p>“Models of Expertise in Knowledge Acquisition, In: Gida and Tasso(eds, Topics in Expert System Design: Methodologies and Tools,” Breuker J, Weilenga B. <i>North Holland Publishing</i>, 1989.</p>			
<p>“Diagnosis Using Hierarchical Design Models,” Genersereth M. <i>Proceedings of National Conference on AI</i>, 1982.</p>			
<p>“Protocol Analysis: Verbal Reports as Data,” Ericsson KaA, Simon HA. <i>MIT Press</i>. Cambridge, MA 1984.</p>			
<p>“The Psychology of Personal Constructs,” Kelly GA. <i>Norton Press</i>, New York, NY, 1995.</p>			
<p>“Understanding Practice: Video as Medium for Reflection and Design, IN : Greenbaum, J, Kyng M (eds.)” Suchman LA, Trigg RH. <i>Design at Work: Cooperative Design of Compute Systems</i>. Lawrence Earbaum Associates 1991, pp. 65-89.</p>			
<p>“Disease Staging Clinical Criteria,” Gonella JS, Louis DZ, Gozum, (eds.). 4th ed. Ann Arbor, Michigan: MEDSTAT Systems, 1994.</p>			
<p>“An Object oriented approach to Interpret Medical Knowledge Based on Arden Syntax,” Johansson BG, Wigertz OB. <i>Proceedings of Annual Symposium of Computer Appl. Med. Car.</i>, 1992. pp. 52-56.</p>			
<p>“Iliad: A Diagnostic Consultant and Patient Simulator,” Bergeron B. <i>MD Computing</i>, Vol 8, 1991. pp. 46-53.</p>			
<p>“Quick Medical Reference(QMR) for Diagnostic Assurance,” Miller RA, Masarie FE, Myers JD. <i>MD Computing</i>, Vol. 5, 1986. pp. 34-49.</p>			
<p>“A Review of Iliad and QMR for Primary Care Providers,” Sumner W. <i>Archives of Family Medicine</i>, Vol 2, 1993. pp. 87-95.</p>			
<p>“Simulation and the Monte Carlo Method,” Rubinstein RY. <i>John Wiley and Sons, Inc.</i>, New York, NY, 1981.</p>			
<p><i>Computer Organization and Architecture</i>, Stallings, William. MacMilliam Publishing Co. 3rd ed. 1993.</p>			
<p><i>Data Network Design</i>, Spohn, Darren L. McGraw-Hill, Inc. 1993.</p>			
<p><i>Data Communications Principles</i>, Gitlin, R.D., J.F. Hayes and S.B. Weinstain. Plenum Press, 1992.</p>			
<p><i>The Irwin Handbook of Telecommunications</i>, Green, James Harry. Irwin Professional Publishing, 2nd ed., 1992.</p>			
<p>Boxer, A. “Where Buses Cannot Go,” <i>IEEE Spectrum</i>, Feb. 1995. pp. 41-45.</p>			
<p>Barroso, L.A. Et al. “RPM: A Rapid Prototyping Engine for Multiprocessor Systems.” <i>IEEE Computer</i>, Feb. 1995, pp. 26-34.</p>			
EXAMINER	DATE CONSIDERED		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF ART CITED BY APPLICANT (PTO-1449)	ATTY. DOCKET NO. 110346.201US1	SERIAL NO. 09/521,242
	APPLICANT SUMNER, II et al.	
	FILING DATE April 5, 2000	GROUP 2121

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	WO 00/65523	11/02/00	WO				
	WO 02/05205	01/17/02	WO				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	Wen-Jeng et al., "Educational Patient Simulation in MEDASPC," Proc. Of the 1994 IEEE Seventh Symposium on Computer-Based Medical Systems, pp. 88-93, June 1994
	Badler et al., "MediSim: Simulated Medical Corpsmen and Casualties for Medical Forces Planning and Training," Proc. National Forum on Military Telemedicine On-line Today, pp. 21-28, March 1995.
	Hohne et al., "A 'Virtual Body' Model for Surgical Education and Rehearsal," Computer, Vol. 29, Issue 1, pp. 25-31, January 1996.
	Kaplan et al., "Designing Support for Remote Intensive-care Telehealth Using the Locales Framework," Proc. Designing Interactive Systems: Processes, Practices, Methods and Techniques, pp. 173-184, August 1997.
	Binder et al., "A Computer Based Interactive Learning and Reference Tool for Transthoracic Echocardiographic Images," Computers in Cardiology 1995, pp. 617-620, September 1995.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.